

# **EPA Registration Jacket**

## **73049-461 Vol. 2**

# Material to be added to an e-Jacket/Jacket

Reg. No. 73049-461

1. ☒ Placement within the e-Jacket/jacket:

- ☐ Default: (chronological, top/newest)
- ☐ Description: (PDF page number, i.e., "before page 45")

Final Printed Label

2. ☐ Send to Data Extraction contractors this material:

- ☐ Newly stamped accepted label
- ☐ Notification
- ☐ New CSF
- ☐ Other: \_\_\_\_\_

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer's name: Sylvester George

Phone: 603-0688 Division: BPPD

Date: 10/13/2011

**Receipt for Section 3**

S:

Resubmission: ☐ Yes ☒ No

Regulatory Type:

Fee For Service: ☐ Yes ☒ No

Application Type:

Billable: ☒ Yes ☐ No

Company:

Risk Manager:

Product #:  Product Name:

Override#:

Me Too Section3:  Me Too Product Name:

Application Date:

OPP Rec'd Date:

Front End Date:

Risk Manager Send Date:

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐ New Ingredient: ☐

Receipt Description:

Form A: ☐ Signature Date:

Form B: ☐ Signature Date:

Receipt Content

Des

Other

Final printed label

View/Edit

New Ingredient Request Date:

New Ingredient Received Date:

Completed  
10/13/2011

Rec'd  
10/11/2011  
SEI

Rec'd  
10/11/11  
HB  
3



October 4, 2011

Document Processing Desk  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Attention: Linda Hollis  
Regulatory Action Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)  
U.S. Environmental Protection Agency

Subject: Valent BioSciences Corp. ProTone SG (EPA Reg. No. 73049-461):  
Submission of Final printed labels

The following submission is fulfilling the condition of Amended Registration for ProTone SG (EPA Registration No. 73049-461) outlined in the EPA letter of September 26, 2011.

Included with this letter are ; EPA form 8570-1, copy of the EPA Registration Amendment authorization letter (Sep 26, 2011) specifying conditions of registration and (2) two copies of the final printed label for ProTone SG.

Please contact me at (847)-968-4726 (or [thomas.bade@valentbiosciences.com](mailto:thomas.bade@valentbiosciences.com)) if I can be of any assistance during the review of this application.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas Bade", is written over a horizontal line.

Thomas Bade Ph.D.  
Regulatory Manager  
Valent BioSciences



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number Valent BioSciences, EPA # 73049-461	2. EPA Product Manager Linda Hollis	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Valent BioSciences / ProTone SG Plant Growth Regulator	PM# (91)	
5. Name and Address of Applicant (Include ZIP Code) Valent BioSciences Corp. 870 Technology Way Libertyville IL, 60048 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated Sept. 26, 2011
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Thomas Bade P.h.D.		Title Regulatory Manager	
		Telephone No. (Include Area Code) 847-968-4726	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Regulatory Manager	
4. Typed Name Thomas Bade		5. Date 10/4/2011	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

Thomas Bade, Ph.D.  
Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048

SEP 26 2011

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

**Subject:** Valent BioSciences Corporation; ProTone SG, EPA Registration No. 73049-461  
Label Amendment to Add PPE and a Compatibility Statement  
D# 451819, Application Dated 3/23/11

Dear Dr. Bade:

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit two (2) copies of your final printed labeling before you release the product for shipment. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(b). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

If you have any questions contact Chris Pfeifer at 703-308-0031 or by email at: [pfeifer.chris@epa.gov](mailto:pfeifer.chris@epa.gov). A stamped copy of the label is enclosed for your records.

Sincerely,

Linda A. Hollis, Chief  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)

Enclosure



FIRST AID	
If in Eyes:	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-847-968-4700.	

This label must be in the possession of the user at the time of pesticide application.

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS & DOMESTIC ANIMALS**  
 Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Personal Protective Equipment (PPE)**  
 Aprons and other handlers must wear:  
 • Long-sleeved shirt and long pants,  
 • Chemical resistant gloves,  
 • Shoes plus socks,  
 • Protective eyewear.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**  
 Users should:  
 • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.  
 • Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**  
 Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**DIRECTIONS FOR USE**  
 It is a violation of Federal law to use this product in a manner inconsistent with the terms of the label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**  
 Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.  
 Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:  
 • Long-sleeved shirt and long pants (or coveralls).  
 • Chemical resistant gloves (made of any waterproof material).  
 • Shoes plus socks.  
 • Protective eyewear.

**GENERAL DIRECTIONS FOR USE ON GRAPES**  
 Use only as directed. Read the label thoroughly and make sure it is understood before making applications. ProTone SG improves red color development in grapes.

- Application Instructions:**
- On grapes, S-ABA is known to accelerate and enhance the red color development of grape berries depending on cultivar, vineyard conditions, and growing region. One or more of the following benefits is often associated with treatment with S-ABA: improved fruit quality as a result of enhanced fruit color, earlier harvest, improved harvest management, and improved pack-out yield.
  - In most cases color development resulting from ProTone SG application will be visible five to seven days after application.
  - Undesired effects can result from any deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, when applying ProTone SG.
  - To prepare the treatment solution, add the required amount ProTone SG to a spray tank about half-filled with water. Agitate while bringing the total volume of water to the required level. Mix thoroughly with agitation and bypass circulation to completely dissolve the ProTone SG, and then add surfactant. Discard any unused treatment solution at the end of each day following local, state or federal law.
  - Use a non-ionic surfactant at the final adjuvant concentration directed by the adjuvant manufacturer. Use of an adjuvant will improve wetting and coverage of the grape bunches.
  - Increased coloration of grape berries has been achieved with bunch directed sprays applied by calibrated commercial spray equipment. Apply ProTone SG in a sufficient amount of water to ensure uniform, thorough, but not excessive coverage of the grape bunches. Product efficacy requires that all bunches, and berries within bunches, receive thorough and complete coverage. Adjust spray volumes used to achieve thorough coverage based on vine size, spacing, trellis system, vine canopy, and spray equipment.
  - Best results will be achieved from applications during the cooler parts of the day or night, avoiding the hottest period of the day. To maximize absorption and optimize product effectiveness, apply ProTone SG under slow drying conditions, e.g. early in the morning, in the evening or night (coolest daily temperatures, medium to high relative humidity, and no wind). Do not make applications during the day or early evening when the fruit is still hot.
  - ProTone SG can enhance the red color of grape cultivars that have difficulty developing color and helps increase red color of grapes grown in poor coloring areas. However, under very poor color development conditions (e.g. excessively hot day and night temperatures, heavy crop load, poor growing conditions) application of ProTone SG may not give adequate red color development. Serious consideration is to be given, on a block-by-block basis, to any vineyard conditions (elevation, sun exposure, soil texture, growing condition, prevailing or anticipated weather

patterns such as high temperature, drought or flood conditions, nutrient levels) or production practices (vine size, vine spacing, vine canopy, crop load, trellis system, pruning) that impact fruit color development.

- Under conditions where red color development of untreated grapes is good, (e.g. growing areas with a history of good red color development, years in which there is good red color development, cultivars that already develop sufficient red color), application of ProTone SG will not provide significant additional red color or advance the harvest period.
- Do not apply ProTone SG to plants or fruit under stress (e.g. heat, water, disease, insect, nutrient). Injured or stressed plants or fruit will show a reduced response to ProTone SG.
- Do not overhead irrigate treated plants for at least 6 hours following application of ProTone SG.
- Do not apply ProTone SG if rain is expected within 6 hours of application.
- The proper application timing of ProTone SG is important to product performance. When applying ProTone SG, deviations from the label directions in the rates, timings, water volumes, or the use of untested spray mixes may produce undesired results.

**COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS**  
 Compatibility and performance data for ProTone SG with other agricultural products is not available.

Do not tank mix ProTone SG with compounds containing copper or iron ions. Do not tank mix ProTone SG with any product unless compatibility has been verified. If considering tank mixing ProTone SG with other products use the following compatibility jar test before mixing a whole tank:

Add water from the same water source to a clear glass or plastic jar. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated area to evaluate for phytotoxicity or ineffectiveness. Always read and follow all label directions and precautions of each product. When using combinations of products the most restrictive of label limitations and precautions must be followed. Do not mix with any pesticide that has a prohibition against tank mixing. For further information consult your Valent agricultural specialist.

Complies with  
 EPA Accepted Labeling

Date: SEP 26 2011

Reviewer: Sylvester George

# APPLICATIONS, RATES, AND TIMINGS

CROP	OBJECTIVE/ BENEFIT	APPLICATION INSTRUCTIONS
Grapes (T- Grapes, apes, apes)	Enhanced red coloration of grapes. Contact Valent Corporation for more information.	Apply ProTone SG within the period from 1 week before veraison (50 percent of the target fruit has soft- ened) until anticipated harvest of target fruit. Application timing varies depending on the cultivar, vineyard conditions, and grower objectives.

## Spray Applications:

Apply 75-250 grams of S-ABA (375 to 750 grams ProTone SG) per acre as a spray solution in a sufficient volume to achieve uniform and complete coverage of the grape bunches. In most cases 75 grams S-ABA (one-half bottle of ProTone SG) to 150 grams S-ABA (one bottle of ProTone SG) per acre per application will provide good results. In situations where greater color development is desired, use the higher S-ABA rate.

## Early timing:

First application should be made between 1 week before veraison and 3 weeks after veraison. A single application made during this period has been shown to be effective to enhance grape berry color.

## Late timing:

If additional color development is desired, up to three (3) applications of ProTone SG can be used. Multiple applications are expected to improve color on cultivars for which there is an extended period between veraison and harvest.

Apply to marketable clusters with significant green color. Fruit may need to remain on the vine for 2 to 3 additional weeks for harvestable color to develop. Fruit must be firm at time of application with the potential to remain firm until harvest.

**Application:** Use bunch directed sprays that achieve thorough wetting of the fruiting zone. Bunches need to receive uniform and complete coverage without runoff. The spray volume required will depend on the trellis system, the vine canopy size and management, and commercial spray equipment used. Spray volumes ranging from 80-200 gallons/A have been shown to be effective when applied under slow drying conditions.

**Use of Adjuvants:** Use a non-ionic surfactant at the final surfactant concentration directed by the surfactant manufacturer to improve wetting and coverage of grape bunches.

**Determining Optimal Rates:** Optimal ProTone SG rates will vary according to the desired color effect, growing conditions and practices, application technique, environmental conditions, variety and cultivar, plant vigor, vine canopy and crop load. Different varieties or cultivars of the same species respond differently to ProTone SG. For specific variety or cultivar information contact your Valent representative. With increasing temperature and lower humidity consider using the higher rates within the range given in the application rates, remembering not to apply to plants that are under stress.

## CONVERSION TABLE

Grams of S-ABA	Pounds of ProTone SG	Grams of ProTone SG
75	0.83	375
100	1.10	500
125	1.38	625
150	1.65	750
175	1.93	875
200	2.20	1000
225	2.48	1125
250	2.76	1250

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Keep container tightly closed when not in use. Store product in a cool and dry place. Avoid extended storage conditions at temperatures above 25°C (77°F). Avoid exposure of product to light.

**Pesticide Disposal:** To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

## WARRANTY AND DISCLAIMER STATEMENT

To the fullest extent permitted by law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

# ProTone® SG

## PLANT GROWTH REGULATOR

### SOLUBLE GRANULE

FOR USE ON GRAPES

Active Ingredient:	20.0% w/w
S-Abscisic Acid	80.0% w/w
Other Ingredients	100.0% w/w
Total	

ProTone® SG contains a total of 20 g of S-Abscisic Acid (S-ABA) in 100 g of product. S-Abscisic Acid, commonly known as S-ABA, is a naturally occurring growth regulator found in plants. Application of ProTone SG (S-ABA) to grape berries causes enhanced coloration of the berries.

See succeeding panel for First Aid, Precautionary Statements, Storage & Disposal Statements and Directions for Use.

## KEEP OUT OF REACH OF CHILDREN CAUTION

Net Contents: 1.65 lbs. (750 g)

This container will treat 0.6 acres when applied at the maximum label rate.

**VALENT BIOSCIENCES CORPORATION**

870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

EPA Registration No.: 73049-461  
EPA Establishment No.: 33762-IA-001

List No.: 05710-04-01  
04-6472/R1

**VALENT BIOSCIENCES CORPORATION**  
870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

© 2011

ProTone is a registered trademark of Valent BioSciences Corporation.





FIRST AID	
If in Eyes:	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
HDT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-847-968-4700.	

This label must be in the possession of the user at the time of pesticide application.

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Chemical resistant gloves.
- Shoes plus socks.
- Protective eyewear.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the terms of the label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Long-sleeved shirt and long pants (or coveralls).
- Chemical resistant gloves (made of any waterproof material).
- Shoes plus socks.
- Protective eyewear.

#### GENERAL DIRECTIONS FOR USE ON GRAPES

Use only as directed. Read the label thoroughly and make sure it is understood before making applications. ProTone® SG improves red color development in grapes.

#### Application Instructions:

- On grapes, S-ABA is known to accelerate and enhance the red color development of grape berries depending on cultivar, vineyard conditions, and growing region. One or more of the following benefits is often associated with treatment with S-ABA: improved fruit quality as a result of enhanced fruit color, earlier harvest, improved harvest management, and improved pack-out yield.
- In most cases color development resulting from ProTone SG application will be visible five to seven days after application.
- Undesired effects can result from any deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, when applying ProTone SG.
- To prepare the treatment solution, add the required amount ProTone SG to a spray tank about half-filled with water. Agitate while bringing the total volume of water to the required level. Mix thoroughly with agitation and bypass circulation to completely dissolve the ProTone SG, and then add surfactant. Discard any unused treatment solution at the end of each day following local, state or federal law.
- Use a non-ionic surfactant at the final adjuvant concentration directed by the adjuvant manufacturer. Use of an adjuvant will improve wetting and coverage of the grape bunches.
- Increased coloration of grape berries has been achieved with bunch directed sprays applied by calibrated commercial spray equipment. Apply ProTone SG in a sufficient amount of water to ensure uniform, thorough, but not excessive coverage of the grape bunches. Product efficacy requires that all bunches, and berries within bunches, receive thorough and complete coverage. Adjust spray volumes used to achieve thorough coverage based on vine size, spacing, trellis system, vine canopy, and spray equipment.
- Best results will be achieved from applications during the cooler parts of the day or night, avoiding the hottest period of the day. To maximize absorption and optimize product effectiveness, apply ProTone SG under slow drying conditions, e.g. early in the morning, in the evening or night (coolest daily temperatures, medium to high relative humidity, and no wind). Do not make applications during the day or early evening when the fruit is still hot.
- ProTone SG can enhance the red color of grape cultivars that have difficulty developing color and helps increase red color of grapes grown in poor coloring areas. However, under very poor color development conditions (e.g. excessively hot day and night temperatures, heavy crop load, poor growing conditions) application of ProTone SG may not give adequate red color development. Serious consideration is to be given, on a block-by-block basis, to any vineyard conditions (elevation, sun exposure, soil texture, growing condition, prevailing or anticipated weather

patterns such as high temperature, drought or flood conditions, nutrient levels) or production practices (vine size, vine spacing, vine canopy, crop load, trellis system, pruning) that impact fruit color development.

- Under conditions where red color development of untreated grapes is good, (e.g. growing areas with a history of good red color development, years in which there is good red color development, cultivars that already develop sufficient red color), application of ProTone SG will not provide significant additional red color or advance the harvest period.
- Do not apply ProTone SG to plants or fruit under stress (e.g. heat, water, disease, insect, nutrient). Injured or stressed plants or fruit will show a reduced response to ProTone SG.
- Do not overhead irrigate treated plants for at least 6 hours following application of ProTone SG.
- Do not apply ProTone SG if rain is expected within 6 hours of application.
- The proper application timing of ProTone SG is important to product performance. When applying ProTone SG, deviations from the label directions in the rates, timings, water volumes, or the use of untested spray mixes may produce undesired results.

#### COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Compatibility and performance data for ProTone SG with other agricultural products is not available.

Do not tank mix ProTone SG with compounds containing copper or iron ions. Do not tank mix ProTone SG with any product unless compatibility has been verified. If considering tank mixing ProTone SG with other products use the following compatibility jar test before mixing a whole tank:

Add water from the same water source to a clear glass or plastic jar. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated area to evaluate for phytotoxicity or ineffectiveness. Always read and follow all label directions and precautions of each product. When using combinations of products the most restrictive of label limitations and precautions must be followed. Do not mix with any pesticide that has a prohibition against tank mixing. For further information consult your Valent agricultural specialist.

## APPLICATIONS, RATES, AND TIMINGS

CROP	OBJECTIVE/ BENEFIT	APPLICATION INSTRUCTIONS
Grapes (Table grapes, Vines)	Enhanced red coloration of grapes. Contact Valent Corporation for more information.	Apply ProTone SG within the period from 1 week before veraison (50 percent of the target fruit has softened) until anticipated harvest of target fruit. Application timing varies depending on the cultivar, vineyard conditions, and grower objectives.

**Spray Applications:**

Apply 75-250 grams of S-ABA (375 to 750 grams ProTone SG) per acre as a spray solution in a sufficient volume to achieve uniform and complete coverage of the grape bunches. In most cases 75 grams S-ABA (one-half bottle of ProTone SG) to 150 grams S-ABA (one bottle of ProTone SG) per acre per application will provide good results. In situations where greater color development is desired, use the higher S-ABA rate.

**Early timing:**

First application should be made between 1 week before veraison and 3 weeks after veraison. A single application made during this period has been shown to be effective to enhance grape berry color.

**Late timing:**

If additional color development is desired, up to three (3) applications of ProTone SG can be used. Multiple applications are expected to improve color on cultivars for which there is an extended period between veraison and harvest.

Apply to marketable clusters with significant green color. Fruit may need to remain on the vine for 2 to 3 additional weeks for harvestable color to develop. Fruit must be firm at time of application with the potential to remain firm until harvest.

**Application:** Use bunch directed sprays that achieve thorough wetting of the fruiting zone. Bunches need to receive uniform and complete coverage without runoff. The spray volume required will depend on the trellis system, the vine canopy size and management, and commercial spray equipment used. Spray volumes ranging from 80-200 gallons/A have been shown to be effective when applied under slow drying conditions.

**Use of Adjuvants:** Use a non-ionic surfactant at the final surfactant concentration directed by the surfactant manufacturer to improve wetting and coverage of grape bunches.

**Determining Optimal Rates:** Optimal ProTone SG rates will vary according to the desired color effect, growing conditions and practices, application technique, environmental conditions, variety and cultivar, plant vigor, vine canopy and crop load. Different varieties or cultivars of the same species respond differently to ProTone SG. For specific variety or cultivar information contact your Valent representative. With increasing temperature and lower humidity consider using the higher rates within the range given in the application rates, remembering not to apply to plants that are under stress.

## CONVERSION TABLE

Grams of S-ABA	Pounds of ProTone SG	Grams of ProTone SG
75	0.83	375
100	1.10	500
125	1.38	625
150	1.65	750
175	1.93	875
200	2.20	1000
225	2.48	1125
250	2.76	1250

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Keep container tightly closed when not in use. Store product in a cool and dry place. Avoid extended storage conditions at temperatures above 25°C (77°F). Avoid exposure of product to light.

**Pesticide Disposal:** To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

## WARRANTY AND DISCLAIMER STATEMENT

To the fullest extent permitted by law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

# ProTone® SG

## PLANT GROWTH REGULATOR

### SOLUBLE GRANULE

FOR USE ON GRAPES

Active Ingredient:	
S-Absciscic Acid	20.0% w/w
Other Ingredients	80.0% w/w
Total	100.0% w/w

ProTone® SG contains a total of 20 g of S-Absciscic Acid (S-ABA) in 100 g of product. S-Absciscic Acid, commonly known as S-ABA, is a naturally occurring growth regulator found in plants. Application of ProTone SG (S-ABA) to grape berries causes enhanced coloration of the berries.

See succeeding panel for First Aid, Precautionary Statements, Storage & Disposal Statements and Directions for Use.

## KEEP OUT OF REACH OF CHILDREN CAUTION

**Net Contents: 1.65 lbs. (750 g)**

This container will treat 0.6 acres when applied at the maximum label rate.

**VALENT BIOSCIENCES CORPORATION**

870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

EPA Registration No.: 73049-461  
EPA Establishment No.: 33762-1A-001

List No.: 05710-04-01  
04-6472/R1

**VALENT BIOSCIENCES CORPORATION**  
870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

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ProTone is a registered trademark of Valent BioSciences Corporation.

Receipt for Section 3

S: 898401

Resubmission: ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☐ Yes ☒ No

Application Type: Miscellaneous Receipt

Billable: ☒ Yes ☐ No

Company: 73049 VALENT BIOSCIENCES CORPORATION

V

Risk Manager: Biologicals & Pollution Prevention Division, PM Team 91

Product #: 73049-461

Product Name: PROTONE SG

Override#:

Me Too Section3:

Me Too Product Name:

Application Date: 22-Jun-2011

OPP Rec'd Date: 23-Jun-2011

Front End Date: 23-Jun-2011

Risk Manager Send Date: 23-Jun-2011

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

Final printed label

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

View/Edit

Receipt Content

Paper Label

Des

Rec'd  
AB  
6/23/11



Thomas Bade, Ph.D.  
Regulatory Manager  
Phone: 847-968-4726  
June 22, 2011

Document Processing Desk  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202-4501

Attention: Chris Pfeifer  
703-308-0031

Subject: ProTone SG Reg # 73049-461 Final Printed label submission and Request for a stamped 'Accepted' copy for state submissions.

I had submitted an amendment to change the ProTone SG label (Amendment dated March 7, 2011; 'Amended ProTone SG Label for addition of Coffee as a allowed crop and typographical changes'). I subsequently received a letter saying it was stamped "Notification Received and Reviewed" (See Attached letter dated April 6, 2011; EPA Letter 'ProTone SG 73049-461 'Application for Label Amendment via Notification dated 3/7/11').

I sent a supplemental label to Hawaii for the use of ProTone on coffee (Hawaii being the only state that grows coffee) and they responded that they would like a copy of the EPA stamped approved supplemental label.

I have attached 3 copies of the final printed label for ProTone SG use on grapes and 3 copies of the final printed Supplemental Label for ProTone SG use on Coffee in Hawaii. Can I please have you stamp "EPA Accepted" on one copy of each label, (the Supplemental Label for ProTone SG on Coffee in Hawaii and the label for ProTone SG on Grapes), and send them back to me so I have EPA Stamped Approved labels for state submissions? The other copies are submitted for your records ["Submit two (2) copies of the revised final printed labeling..."].

Thank you for your help. If there are any questions please give me a call or an e-mail.

Sincerely  


Thomas Bade, Ph.D.  
thomas.bade@valentbiosciences.com



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number Valent BioSciences / 73049-461	2. EPA Product Manager	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Valent BioSciences / ProTone SG Plant Growth Regulator	PM#	
5. Name and Address of Applicant (Include ZIP Code) Valent BioSciences Corp. 870 Technology Way Libertyville IL, 60048 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(ii), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated April 6, 2011
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of final printed label and Final Printed Supplemental label. And request for receipt of a stamped accepted copy of these labels.

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Thomas Bade P.h.D.	Title Regulatory Manager	Telephone No. (Include Area Code) 847-968-4726
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)  
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Thomas Bade	5. Date 6/22/2011	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

**APR 06 2011**

Thomas Bade, Ph.D.  
Regulatory Manager  
Valent BioSciences  
870 Technology Way  
Libertyville, IL 60048

Subject: Protone SG, EPA Reg. No: 73049-461  
Application for Label Amendment via Notification dated 3/7/11

Dear Dr. Bade:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under PRN 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. Our records have been duly noted, and the label submitted with this application has been stamped "Notification, received and reviewed" and will be placed accordingly in our records.

Questions concerning this action should be directed to John Fournier at (703) 308-0169 or email at [fournier.john@epa.gov](mailto:fournier.john@epa.gov).

Sincerely,

*Linda Hollis*

Linda Hollis, Chief  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)

# SUPPLEMENTAL LABEL

For distribution and use only within Hawaii



ACTIVE INGREDIENT:  
 S-Abscisic Acid ..... 20.0% w/w  
 OTHER INGREDIENTS ..... 80.0% w/w  
 TOTAL ..... 100.0% w/w

EPA Registration No.: 73049-461  
 EPA Est. No.: 33762-IA-001

## KEEP OUT OF REACH OF CHILDREN CAUTION

**Read The ProTone SG Label Affixed To The Container Before Applying. Use Strictly In Accordance With Precautionary Statements, Use Directions, Worker Protection Statements And With Applicable State And Federal Regulations. Read Entire Label. Refer To Product Label For First Aid Statements And Full Use Instructions.**

### FOR USE ON COFFEE

### APPLICATIONS, RATES, AND TIMINGS

CROP	DOSE	OBSERVATIONS
Coffee	40 to 400 grams A.I. (200 to 2000 grams product)	<p>To suppress flower bud break from their latent dormancy of immature (&lt;4 mm) and early mature (5 to 6 mm long) stages.</p> <p><b>FOLIAR APPLICATIONS:</b>            Applied in sufficient water volume to assure total coverage of developing buds along all laterals (arrange nozzles for coverage from bottom up as well as top down of laterals and leaves).            Multiple applications at 3 to 7 day frequency may be required over a period of 14 to 40 days. Begin applications when developing buds are at the &lt;4 mm length stage and prior to the beginning of the rainfall period. Use a non-ionic surfactant at 0.05% v/v.</p>
	0.5 to 2 grams A.I. / Liter (2.5 to 10 grams product)	<p><b>SOIL APPLICATIONS:</b>  <u>Hand applied method:</u>            Apply 1 liter of mix solution per tree, evenly distributed within the tree drip line. Multiple applications at 3 to 7 day frequency may be required over a period of 14 to 40 days. Begin applications when developing buds are at the &lt;4 mm length stage and prior to the beginning of the rainfall period.</p>

04-6816/R1

Registered and Manufactured by: Valent BioSciences Corporation, 870 Technology Way, Libertyville, IL 60048



Valent U.S.A. Corporation  
 P.O. Box 8025  
 Walnut Creek, CA 94596-8025  
 800-6-VALENT (682-5368) - www.valent.com

May, 2011

© Valent BioSciences Corporation

## SUPPLEMENTAL LABEL

For distribution and use only within Hawaii



**ACTIVE INGREDIENT:**

S-Absciscic Acid ..... 20.0% w/w

OTHER INGREDIENTS ..... 80.0% w/w

TOTAL ..... 100.0% w/w

EPA Registration No.: 73049-461

EPA Est. No.: 33762-IA-001

### KEEP OUT OF REACH OF CHILDREN CAUTION

**Read The ProTone SG Label Affixed To The Container Before Applying. Use Strictly In Accordance With Precautionary Statements, Use Directions, Worker Protection Statements And With Applicable State And Federal Regulations. Read Entire Label. Refer To Product Label For First Aid Statements And Full Use Instructions.**

#### FOR USE ON COFFEE

#### APPLICATIONS, RATES, AND TIMINGS

CROP	DOSE	OBSERVATIONS
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04-6816/R1

Registered and Manufactured by: Valent BioSciences Corporation, 870 Technology Way, Libertyville, IL 60048



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800-6-VALENT (682-5368) - [www.valent.com](http://www.valent.com)

May, 2011

© Valent BioSciences Corporation



## SUPPLEMENTAL LABEL

For distribution and use only within Hawaii



**ACTIVE INGREDIENT:**

S-Absciscic Acid ..... 20.0% w/w

OTHER INGREDIENTS ..... 80.0% w/w

TOTAL ..... 100.0% w/w

EPA Registration No.: 73049-461

EPA Est. No.: 33762-IA-001

### KEEP OUT OF REACH OF CHILDREN CAUTION

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#### FOR USE ON COFFEE

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	0.5 to 2 grams A.I. / Liter (2.5 to 10 grams product)	<b>SOIL APPLICATIONS:</b> <u>Hand applied method:</u> Apply 1 liter of mix solution per tree, evenly distributed within the tree drip line. Multiple applications at 3 to 7 day frequency may be required over a period of 14 to 40 days. Begin applications when developing buds are at the <4 mm length stage and prior to the beginning of the rainfall period.

04-6816/R1

Registered and Manufactured by: Valent BioSciences Corporation, 870 Technology Way, Libertyville, IL 60048



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800-6-VALENT (682-5368) - [www.valent.com](http://www.valent.com)

May, 2011

© Valent BioSciences Corporation

# ProTone® SG

## PLANT GROWTH REGULATOR

### SOLUBLE GRANULE

FOR USE ON GRAPES

**Active Ingredient:**

S-Abscisic Acid ..... 20.0% w/w

**Other Ingredients** ..... 80.0% w/w

**Total** ..... 100.0% w/w

ProTone® SG contains a total of 20 g of S-Abscisic Acid (S-ABA) in 100 g of product. S-Abscisic Acid, commonly known as S-ABA, is a naturally occurring growth regulator found in plants. Application of ProTone SG (S-ABA) to grape berries causes enhanced coloration of the berries.

See succeeding panel for First Aid, Precautionary Statements, Storage & Disposal Statements and Directions for Use.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

**Net Contents: 1.65 lbs. (750 g)**

This container will treat 0.6 acres when applied at the maximum label rate.

**VALENT BIOSCIENCES®**  
CORPORATION  
870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

EPA Registration No.: 73049-461  
EPA Establishment No.: 33762-IA-001

List No.: 05710-04-01  
04-6472/R1



(01) 0 06 53204 21672 418

Lot No.:  
Date of Manufacture:

OPEN HERE ▲

# ProTone<sup>®</sup> SG

## PLANT GROWTH REGULATOR

### SOLUBLE GRANULE

#### FIRST AID

- |             |   |
|-------------|---|
| If in Eyes: | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul> |
|-------------|---|

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-847-968-4700.

This label must be in the possession of the user at the time of pesticide application.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS & DOMESTIC ANIMALS

Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE)  
Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves.
- Shoes plus socks.
- Protective eyewear.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the terms of the label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Long-sleeved shirt and long pants (or coveralls).
- Chemical resistant gloves (made of any waterproof material).
- Shoes plus socks.
- Protective eyewear.

#### GENERAL DIRECTIONS FOR USE ON GRAPES

Use only as directed. Read the label thoroughly and make sure it is understood before making applications. ProTone<sup>®</sup> SG improves red color development in grapes.

#### Application Instructions:

- On grapes, S-ABA is known to accelerate and enhance the red color development of grape berries depending on cultivar, vineyard conditions, and growing region. One or more of the following benefits is often associated with treatment with S-ABA: improved fruit quality as a result of enhanced fruit color, earlier harvest, improved harvest management, and improved pack-out yield.
- In most cases color development resulting from ProTone SG application will be visible five to seven days after application.
- Undesired effects can result from any deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, when applying ProTone SG.
- To prepare the treatment solution, add the required amount ProTone SG to a spray tank about half-filled with water. Agitate while bringing the total volume of water to the required level. Mix thoroughly with agitation and bypass circulation to completely dissolve the ProTone SG, and then add surfactant. Discard any unused treatment solution at the end of each day following local, state or federal law.
- Use a non-ionic surfactant at the final adjuvant concentration directed by the adjuvant manufacturer. Use of an adjuvant will improve wetting and coverage of the grape bunches.
- Increased coloration of grape berries has been achieved with bunch directed sprays applied by calibrated commercial spray equipment. Apply ProTone SG in a sufficient amount of water to ensure uniform, thorough, but not excessive coverage of the grape bunches. Product efficacy requires that all bunches, and berries within bunches, receive thorough and complete coverage. Adjust spray volumes used to achieve thorough coverage based on vine size, spacing, trellis system, vine canopy, and spray equipment.
- Best results will be achieved from applications during the cooler parts of the day or night, avoiding the hottest period of the day. To maximize absorption and optimize product effectiveness, apply ProTone SG under slow drying conditions, e.g. early in the morning, in the evening or night (coolest daily temperatures, medium to high relative humidity, and no wind). Do not make applications during the day or early evening when the fruit is still hot.
- ProTone SG can enhance the red color of grape cultivars that have difficulty developing color and helps increase red color of grapes grown in poor coloring areas. However, under very poor color development conditions (e.g. excessively hot day and night temperatures, heavy crop load, poor growing conditions) application of ProTone SG may not give adequate red color development. Serious consideration is to be given, on a block-by-block basis, to any vineyard conditions (elevation, sun exposure, soil texture, growing condition, prevailing or anticipated weather

patterns such as high temperature, drought or flood conditions, nutrient levels) or production practices (vine size, vine spacing, vine canopy, crop load, trellis system, pruning) that impact fruit color development.

- Under conditions where red color development of untreated grapes is good, (e.g. growing areas with a history of good red color development, years in which there is good red color development, cultivars that already develop sufficient color), application of ProTone SG will not provide significant additional red color or advance the harvest period.
- Do not apply ProTone SG to plants or fruit under stress (e.g. heat, water, disease, insect, nutrient). Injured or stressed plants or fruit will show a reduced response to ProTone SG.
- Do not overhead irrigate treated plants for at least 6 hours following application of ProTone SG.
- Do not apply ProTone SG if rain is expected within 6 hours of application.
- The proper application timing of ProTone SG is important to product performance. When applying ProTone SG, deviations from the label directions in the rates, timings, water volumes, or the use of untested spray mixes may produce undesired results.

#### COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Compatibility and performance data for ProTone SG with other agricultural products is not available.

Do not tank mix ProTone SG with compounds containing copper or iron ions. Do not tank mix ProTone SG with any product unless compatibility has been verified. If considering tank mixing ProTone SG with other products use the following compatibility jar test before mixing a whole tank:

Add water from the same water source to a clear glass or plastic jar. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated area to evaluate for phytotoxicity or ineffectiveness. Always read and follow all label directions and precautions of each product. When using combinations of products the most restrictive of label limitations and precautions must be followed. Do not mix with any pesticide that has a prohibition against tank mixing. For further information consult your Valent agricultural specialist.

APPLICATIONS, RATES, AND TIMINGS

CROP	OBJECTIVE/ BENEFIT	APPLICATION INSTRUCTIONS
Grapes (Table Grapes, Juice Grapes, Wine Grapes)	Enhanced red coloration of grapes.  Contact Valent Corporation for more information.	Apply ProTone SG within the period from 1 week before veraison (50 percent of the target fruit has soft- ened) until anticipated harvest of target fruit. Application timing varies depending on the cultivar, vineyard conditions, and grower objectives.
<b>Spray Applications:</b> Apply 75-250 grams of S-ABA (375 to 750 grams ProTone SG) per acre as a spray solution in a sufficient volume to achieve uniform and complete cover- age of the grape bunches. In most cases 75 grams S-ABA (one-half bottle of ProTone SG) to 150 grams S-ABA (one bottle of ProTone SG) per acre per ap- plication will provide good results. In situations where greater color development is desired, use the higher S-ABA rate.		
<b>Early timing:</b> First application should be made between 1 week before veraison and 3 weeks after veraison. A single application made during this period has been shown to be effective to enhance grape berry color.		
<b>Late timing:</b> If additional color development is desired, up to three (3) applications of ProTone SG can be used. Multiple applications are expected to improve color on cultivars for which there is an extended period between veraison and harvest.		
Apply to marketable clusters with significant green color. Fruit may need to remain on the vine for 2 to 3 additional weeks for harvestable color to develop. Fruit must be firm at time of application with the potential to remain firm until harvest.		
<b>Application:</b> Use bunch directed sprays that achieve thorough wetting of the fruiting zone. Bunches need to receive uniform and complete coverage without runoff. The spray volume required will depend on the trellis system, the vine canopy size and management, and commercial spray equipment used. Spray volumes ranging from 80-200 gallons/A have been shown to be effective when applied under slow drying conditions.		
<b>Use of Adjuvants:</b> Use a non-ionic surfactant at the final surfactant concentra- tion directed by the surfactant manufacturer to improve wetting and coverage of grape bunches.		

**Determining Optimal Rates:** Optimal ProTone SG rates will vary according to the desired color effect, growing conditions and practices, application technique, environmental conditions, variety and cultivar, plant vigor, vine canopy and crop load. Different varieties or cultivars of the same species respond differently to ProTone SG. For specific variety or cultivar information contact your Valent representative. With increasing temperature and lower humidity consider using the higher rates within the range given in the application rates, remembering not to apply to plants that are under stress.

CONVERSION TABLE

Grams of S-ABA	Pounds of ProTone SG	Grams of ProTone SG
75	0.83	375
100	1.10	500
125	1.38	625
150	1.65	750
175	1.93	875
200	2.20	1000
225	2.48	1125
250	2.76	1250

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

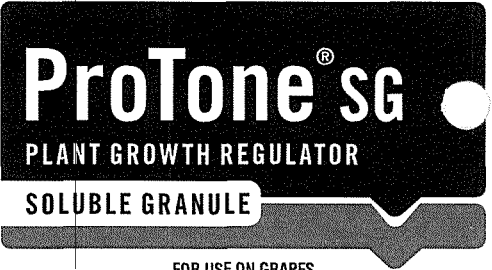
**Pesticide Storage:** Keep container tightly closed when not in use. Store product in a cool and dry place. Avoid extended storage conditions at temperatures above 25°C (77°F). Avoid exposure of product to light.

**Pesticide Disposal:** To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

WARRANTY AND DISCLAIMER STATEMENT

To the fullest extent permitted by law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.



FOR USE ON GRAPES

Active Ingredient:	
S-Abscisic Acid	20.0% w/w
Other Ingredients	80.0% w/w
Total	100.0% w/w

ProTone® SG contains a total of 20 g of S-Abscisic Acid (S-ABA) in 100 g of product. S-Abscisic Acid, commonly known as S-ABA, is a naturally occurring growth regulator found in plants. Application of ProTone SG (S-ABA) to grape berries causes enhanced coloration of the berries.

See succeeding panel for First Aid, Precautionary Statements, Storage & Disposal Statements and Directions for Use.

KEEP OUT OF REACH OF CHILDREN  
CAUTION

Net Contents: 1.65 lbs. (750 g)

This container will treat 0.6 acres when applied at the maximum label rate.



**VALENT BIOSCIENCES**  
CORPORATION  
870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

EPA Registration No.: 73049-461  
EPA Establishment No.: 33762-1A-001

List No.: 05716  
04-6472/H1

**VALENT BIOSCIENCES**  
CORPORATION  
870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

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# ProTone® SG

## PLANT GROWTH REGULATOR

### SOLUBLE GRANULE

#### FOR USE ON GRAPES

**Active Ingredient:**

S-Abscisic Acid ..... 20.0% w/w

**Other Ingredients** ..... 80.0% w/w

**Total** ..... 100.0% w/w

ProTone® SG contains a total of 20 g of S-Abscisic Acid (S-ABA) in 100 g of product. S-Abscisic Acid, commonly known as S-ABA, is a naturally occurring growth regulator found in plants. Application of ProTone SG (S-ABA) to grape berries causes enhanced coloration of the berries.

See succeeding panel for First Aid, Precautionary Statements, Storage & Disposal Statements and Directions for Use.

## KEEP OUT OF REACH OF CHILDREN CAUTION

### Net Contents: 1.65 lbs. (750 g)

This container will treat 0.6 acres when applied at the maximum label rate.

**VALENT BIOSCIENCES®**  
CORPORATION  
870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

EPA Registration No.: 73049-461  
EPA Establishment No.: 33762-IA-001

List No.: 05710-04-01  
04-6472/R1



Lot No.:  
Date of Manufacture:

# ProTone<sup>®</sup> SG

## PLANT GROWTH REGULATOR

### SOLUBLE GRANULE

#### FIRST AID

If in Eyes:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
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#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-847-968-4700.

This label must be in the possession of the user at the time of pesticide application.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS & DOMESTIC ANIMALS

**Caution:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

##### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves.
- Shoes plus socks.
- Protective eyewear.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the terms of the label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Long-sleeved shirt and long pants (or coveralls).
- Chemical resistant gloves (made of any waterproof material).
- Shoes plus socks.
- Protective eyewear.

#### GENERAL DIRECTIONS FOR USE ON GRAPES

Use only as directed. Read the label thoroughly and make sure it is understood before making applications. ProTone<sup>®</sup> SG improves red color development in grapes.

#### Application Instructions:

- On grapes, S-ABA is known to accelerate and enhance the red color development of grape berries depending on cultivar, vineyard conditions, and growing region. One or more of the following benefits is often associated with treatment with S-ABA: improved fruit quality as a result of enhanced fruit color, earlier harvest, improved harvest management, and improved pack-out yield.
- In most cases color development resulting from ProTone SG application will be visible five to seven days after application.
- Undesired effects can result from any deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, when applying ProTone SG.
- To prepare the treatment solution, add the required amount ProTone SG to a spray tank about half-filled with water. Agitate while bringing the total volume of water to the required level. Mix thoroughly with agitation and bypass circulation to completely dissolve the ProTone SG, and then add surfactant. Discard any unused treatment solution at the end of each day following local, state or federal law.
- Use a non-ionic surfactant at the final adjuvant concentration directed by the adjuvant manufacturer. Use of an adjuvant will improve wetting and coverage of the grape bunches.
- Increased coloration of grape berries has been achieved with bunch directed sprays applied by calibrated commercial spray equipment. Apply ProTone SG in a sufficient amount of water to ensure uniform, thorough, but not excessive coverage of the grape bunches. Product efficacy requires that all bunches, and berries within bunches, receive thorough and complete coverage. Adjust spray volumes used to achieve thorough coverage based on vine size, spacing, trellis system, vine canopy, and spray equipment.
- Best results will be achieved from applications during the cooler parts of the day or night, avoiding the hottest period of the day. To maximize absorption and optimize product effectiveness, apply ProTone SG under slow drying conditions, e.g. early in the morning, in the evening or night (coolest daily temperatures, medium to high relative humidity, and no wind). Do not make applications during the day or early evening when the fruit is still hot.
- ProTone SG can enhance the red color of grape cultivars that have difficulty developing color and helps increase red color of grapes grown in poor coloring areas. However, under very poor color development conditions (e.g. excessively hot day and night temperatures, heavy crop load, poor growing conditions) application of ProTone SG may not give adequate red color development. Serious consideration is to be given, on a block-by-block basis, to any vineyard conditions (elevation, sun exposure, soil texture, growing condition, prevailing or anticipated weather

patterns such as high temperature, drought or flood conditions, nutrient levels) or production practices (vine size, vine spacing, vine canopy, crop load, trellis system, pruning) that impact fruit color development.

- Under conditions where red color development of untreated grapes is good, (e.g. growing areas with a history of good red color development, years in which there is good red color development, cultivars that already develop sufficient color), application of ProTone SG will not provide significant additional red color or advance the harvest period.
- Do not apply ProTone SG to plants or fruit under stress (e.g. heat, water, disease, insect, nutrient). Injured or stressed plants or fruit will show a reduced response to ProTone SG.
- Do not overhead irrigate treated plants for at least 6 hours following application of ProTone SG.
- Do not apply ProTone SG if rain is expected within 6 hours of application.
- The proper application timing of ProTone SG is important to product performance. When applying ProTone SG, deviations from the label directions in the rates, timings, water volumes, or the use of untested spray mixes may produce undesired results.

#### COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Compatibility and performance data for ProTone SG with other agricultural products is not available.

Do not tank mix ProTone SG with compounds containing copper or iron ions. Do not tank mix ProTone SG with any product unless compatibility has been verified. If considering tank mixing ProTone SG with other products use the following compatibility jar test before mixing a whole tank:

Add water from the same water source to a clear glass or plastic jar. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated area to evaluate for phytotoxicity or ineffectiveness. Always read and follow all label directions and precautions of each product. When using combinations of products the most restrictive of label limitations and precautions must be followed. Do not mix with any pesticide that has a prohibition against tank mixing. For further information consult your Valent agricultural specialist.

APPLICATIONS, RATES, AND TIMINGS

CROP	OBJECTIVE/ BENEFIT	APPLICATION INSTRUCTIONS
Grapes (Table Grapes, Juice Grapes, Wine Grapes)	Enhanced red coloration of grapes.  Contact Valent Corporation for more information.	Apply ProTone SG within the period from 1 week before veraison (50 percent of the target fruit has soft- ened) until anticipated harvest of target fruit. Application timing varies depending on the cultivar, vineyard conditions, and grower objectives.
<b>Spray Applications:</b> Apply 75-250 grams of S-ABA (375 to 750 grams ProTone SG) per acre as a spray solution in a sufficient volume to achieve uniform and complete cover- age of the grape bunches. In most cases 75 grams S-ABA (one-half bottle of ProTone SG) to 150 grams S-ABA (one bottle of ProTone SG) per acre per ap- plication will provide good results. In situations where greater color development is desired, use the higher S-ABA rate.		
<b>Early timing:</b> First application should be made between 1 week before veraison and 3 weeks after veraison. A single application made during this period has been shown to be effective to enhance grape berry color.		
<b>Late timing:</b> If additional color development is desired, up to three (3) applications of ProTone SG can be used. Multiple applications are expected to improve color on cultivars for which there is an extended period between veraison and harvest.		
Apply to marketable clusters with significant green color. Fruit may need to remain on the vine for 2 to 3 additional weeks for harvestable color to develop. Fruit must be firm at time of application with the potential to remain firm until harvest.		
<b>Application:</b> Use bunch directed sprays that achieve thorough wetting of the fruiting zone. Bunches need to receive uniform and complete coverage without runoff. The spray volume required will depend on the trellis system, the vine canopy size and management, and commercial spray equipment used. Spray volumes ranging from 80-200 gallons/A have been shown to be effective when applied under slow drying conditions.		
<b>Use of Adjuvants:</b> Use a non-ionic surfactant at the final surfactant concentra- tion directed by the surfactant manufacturer to improve wetting and coverage of grape bunches.		

**Determining Optimal Rates:** Optimal ProTone SG rates will vary according to  
the desired color effect, growing conditions and practices, application technique,  
environmental conditions, variety and cultivar, plant vigor, vine canopy and crop  
load. Different varieties or cultivars of the same species respond differently to  
ProTone SG. For specific variety or cultivar information contact your Valent rep-  
resentative. With increasing temperature and lower humidity consider using the  
higher rates within the range given in the application rates, remembering not to  
apply to plants that are under stress.

CONVERSION TABLE

Grams of S-ABA	Pounds of ProTone SG	Grams of ProTone SG
75	0.83	375
100	1.10	500
125	1.38	625
150	1.65	750
175	1.93	875
200	2.20	1000
225	2.48	1125
250	2.76	1250

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Keep container tightly closed when not in use. Store product  
in a cool and dry place. Avoid extended storage conditions at temperatures above  
25°C (77°F). Avoid exposure of product to light.

**Pesticide Disposal:** To avoid waste, use all material in this container by application  
according to label directions. If waste cannot be avoided, offer remaining product to  
a waste disposal facility or pesticide disposal program (often such programs are run  
by state or local governments or by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.  
Triple rinse container (or equivalent) promptly after emptying. Triple rinse as fol-  
lows: Empty the remaining contents into application equipment or a mix tank. Fill  
container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into  
application equipment or a mix tank or store rinsate for later use or disposal. Drain  
for 10 seconds after the flow begins to drip. Repeat this procedure two more  
times. Offer for recycling, if available or puncture and dispose of the container in  
a sanitary landfill, or by other procedures approved by state and local authorities.

WARRANTY AND DISCLAIMER STATEMENT

To the fullest extent permitted by law, seller makes no warranty, express or implied,  
of merchantability, fitness or otherwise concerning use of this product other than as  
indicated on the label. User assumes all risks of use, storage or handling not in strict  
accordance with accompanying directions.

ProTone<sup>®</sup> SG

PLANT GROWTH REGULATOR

SOLUBLE GRANULE

FOR USE ON GRAPES

Active Ingredient:

S-Abscisic Acid

Other Ingredients

Total

20.0% w/w

80.0% w/w

100.0% w/w

ProTone<sup>®</sup> SG contains a total of 20 g of S-Abscisic Acid (S-ABA) in 100 g of product. S-Abscisic Acid, commonly known as S-ABA, is a naturally occurring growth regulator found in plants. Application of ProTone SG (S-ABA) to grape berries causes enhanced coloration of the berries.

See succeeding panel for First Aid, Precautionary Statements, Storage & Disposal Statements and Directions for Use.

KEEP OUT OF REACH OF CHILDREN

CAUTION

Net Contents: 1.65 lbs. (750 g)

This container will treat 0.6 acres when applied at the maximum label rate.

VALENT BIOSCIENCES<sup>®</sup>

CORPORATION

870 Technology Way

Libertyville, IL 60048

1-847-968-4700

EPA Registration No.: 73049-461

EPA Establishment No.: 33762-01-001

List No.: 057

04-b

VALENT BIOSCIENCES<sup>®</sup>  
CORPORATION  
870 Technology Way  
Libertyville, IL 60048  
1-847-968-4700

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# ProTone® SG

## PLANT GROWTH REGULATOR

### SOLUBLE GRANULE

#### FOR USE ON GRAPES

**Active Ingredient:**

S-Abscisic Acid ..... 20.0% w/w

**Other Ingredients** ..... 80.0% w/w

**Total** ..... 100.0% w/w

ProTone® SG contains a total of 20 g of S-Abscisic Acid (S-ABA) in 100 g of product. S-Abscisic Acid, commonly known as S-ABA, is a naturally occurring growth regulator found in plants. Application of ProTone SG (S-ABA) to grape berries causes enhanced coloration of the berries.

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### Net Contents: 1.65 lbs. (750 g)

This container will treat 0.6 acres when applied at the maximum label rate.

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CORPORATION  
870 Technology Way  
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1-847-968-4700

EPA Registration No.: 73049-461  
EPA Establishment No.: 33762-IA-001

List No.: 05710-04-01  
04-6472/R1



(01) 0 06 53204 21672 424

Lot No.:  
Date of Manufacture:





FIRST AID	
If in Eyes:	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-847-968-4700.	

This label must be in the possession of the user at the time of pesticide application.

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS & DOMESTIC ANIMALS**  
 Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Personal Protective Equipment (PPE)**  
 Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves.
- Shoes plus socks.
- Protective eyewear.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations
Users should: <ul style="list-style-type: none"> <li>• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.</li> </ul>

**ENVIRONMENTAL HAZARDS**  
 Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**DIRECTIONS FOR USE**  
 It is a violation of Federal law to use this product in a manner inconsistent with the terms of the label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.  PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: <ul style="list-style-type: none"> <li>• Long-sleeved shirt and long pants (or coveralls).</li> <li>• Chemical resistant gloves (made of any waterproof material).</li> <li>• Shoes plus socks.</li> <li>• Protective eyewear.</li> </ul>

**GENERAL DIRECTIONS FOR USE ON GRAPES**  
 Use only as directed. Read the label thoroughly and make sure it is understood before making applications. ProTone® SG improves red color development in grapes.

- Application Instructions:**
- On grapes, S-ABA is known to accelerate and enhance the red color development of grape berries depending on cultivar, vineyard conditions, and growing region. One or more of the following benefits is often associated with treatment with S-ABA: improved fruit quality as a result of enhanced fruit color, earlier harvest, improved harvest management, and improved pack-out yield.
  - In most cases color development resulting from ProTone SG application will be visible five to seven days after application.
  - Undesired effects can result from any deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, when applying ProTone SG.
  - To prepare the treatment solution, add the required amount ProTone SG to a spray tank about half-filled with water. Agitate while bringing the total volume of water to the required level. Mix thoroughly with agitation and bypass circulation to completely dissolve the ProTone SG, and then add surfactant. Discard any unused treatment solution at the end of each day following local, state or federal law.
  - Use a non-ionic surfactant at the final adjuvant concentration directed by the adjuvant manufacturer. Use of an adjuvant will improve wetting and coverage of the grape bunches.
  - Increased coloration of grape berries has been achieved with bunch directed sprays applied by calibrated commercial spray equipment. Apply ProTone SG in a sufficient amount of water to ensure uniform, thorough, but not excessive coverage of the grape bunches. Product efficacy requires that all bunches, and berries within bunches, receive thorough and complete coverage. Adjust spray volumes used to achieve thorough coverage based on vine size, spacing, trellis system, vine canopy, and spray equipment.
  - Best results will be achieved from applications during the cooler parts of the day or night, avoiding the hottest period of the day. To maximize absorption and optimize product effectiveness, apply ProTone SG under slow drying conditions, e.g. early in the morning, in the evening or night (coolest daily temperatures, medium to high relative humidity, and no wind). Do not make applications during the day or early evening when the fruit is still hot.
  - ProTone SG can enhance the red color of grape cultivars that have difficulty developing color and helps increase red color of grapes grown in poor coloring areas. However, under very poor color development conditions (e.g. excessively hot day and night temperatures, heavy crop load, poor growing conditions) application of ProTone SG may not give adequate red color development. Serious consideration is to be given, on a block-by-block basis, to any vineyard conditions (elevation, sun exposure, soil texture, growing condition, prevailing or anticipated weather

- patterns such as high temperature, drought or flood conditions, nutrient levels) or production practices (vine size, vine spacing, vine canopy, crop load, trellis system, pruning) that impact fruit color development.
- Under conditions where red color development of untreated grapes is good, (e.g. growing areas with a history of good red color development, years in which there is good red color development, cultivars that already develop sufficient red color), application of ProTone SG will not provide significant additional red or advance the harvest period.
  - Do not apply ProTone SG to plants or fruit under stress (e.g. heat, water, disease, insect, nutrient). Injured or stressed plants or fruit will show a reduced response to ProTone SG.
  - Do not overhead irrigate treated plants for at least 6 hours following application of ProTone SG.
  - Do not apply ProTone SG if rain is expected within 6 hours of application.
  - The proper application timing of ProTone SG is important to product performance. When applying ProTone SG, deviations from the label directions in the rates, timings, water volumes, or the use of untested spray mixes may produce undesired results.
- COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS**  
 Compatibility and performance data for ProTone SG with other agricultural products is not available.
- Do not tank mix ProTone SG with compounds containing copper or iron ions. Do not tank mix ProTone SG with any product unless compatibility has been verified. If considering tank mixing ProTone SG with other products use the following compatibility jar test before mixing a whole tank:
- Add water from the same water source to a clear glass or plastic jar. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.
- Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated area to evaluate for phytotoxicity or ineffectiveness. Always read and follow all label directions and precautions of each product. When using combinations of products the most restrictive of label limitations and precautions must be followed. Do not mix with any pesticide that has a prohibition against tank mixing. For further information consult your Valent agricultural specialist.

CROP	OBJECTIVE/ BENEFIT	APPLICATION INSTRUCTIONS
Grapes (Table Grapes, Juice Grapes, Wine Grapes)	Enhanced red coloration of grapes.  Contact Valent Corporation for more information.	Apply ProTone SG within the period from 1 week before veraison (50 percent of the target fruit has soft- ened) until anticipated harvest of target fruit. Application timing varies depending on the cultivar, vineyard conditions, and grower objectives.
<b>Spray Applications:</b> Apply 75-250 grams of S-ABA (375 to 750 grams ProTone SG) per acre as a spray solution in a sufficient volume to achieve uniform and complete cover- age of the grape bunches. In most cases 75 grams S-ABA (one-half bottle of ProTone SG) to 150 grams S-ABA (one bottle of ProTone SG) per acre per application will provide good results. In situations where greater color development is desired, use the higher S-ABA rate.		
<b>Early timing:</b> First application should be made between 1 week before veraison and 3 weeks after veraison. A single application made during this period has been shown to be effective to enhance grape berry color.		
<b>Late timing:</b> If additional color development is desired, up to three (3) applications of ProTone SG can be used. Multiple applications are expected to improve color on cultivars for which there is an extended period between veraison and harvest.		
Apply to marketable clusters with significant green color. Fruit may need to remain on the vine for 2 to 3 additional weeks for harvestable color to develop. Fruit must be firm at time of application with the potential to remain firm until harvest.		
<b>Application:</b> Use bunch directed sprays that achieve thorough wetting of the fruiting zone. Bunches need to receive uniform and complete coverage without runoff. The spray volume required will depend on the trellis system, the vine canopy size and management, and commercial spray equipment used. Spray volumes ranging from 80-200 gallons/A have been shown to be effective when applied under slow dry conditions.		
<b>Use of Adjuvants:</b> Use a non-ionic surfactant at the final surfactant concentra- tion directed by the surfactant manufacturer to improve wetting and coverage of grape bunches.		

**Determining Optimal Rates:** Optimal ProTone SG rates will vary according to the desired color effect, growing conditions and practices, application technique, environmental conditions, variety and cultivar, plant vigor, vine canopy and crop load. Different varieties or cultivars of the same species respond differently to ProTone SG. For specific variety or cultivar information contact your Valent representative. With increasing temperature and lower humidity consider using the higher rates within the range given in the application rates, remembering not to apply to plants that are under stress.

Grams of S-ABA	Pounds of ProTone SG	Grams of ProTone SG
75	0.83	375
100	1.10	500
125	1.38	625
150	1.65	750
175	1.93	875
200	2.20	1000
225	2.48	1125
250	2.76	1250

**Do not contaminate water, food or feed by storage or disposal.**

**Pesticide Storage:** Keep container tightly closed when not in use. Store product in a cool and dry place. Avoid extended storage conditions at temperatures above 25°C (77°F). Avoid exposure of product to light.

**Pesticide Disposal:** To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for a second time into the same application equipment. Repeat this procedure two more times. Offer for recycling, if available or puncture and dispose of the container in a sanitary landfill, or by other acceptable means approved by state and local authorities.

To the fullest extent permitted by law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.



ProTone is a registered trademark of Valent BioSciences Corporation.



<b>Active Ingredient:</b>	
S-Abscisic Acid .....	20.0% w/w
Other Ingredients .....	80.0% w/w
<b>Total</b> .....	<b>100.0% w/w</b>

ProTone® SG contains a total of 20 g of S-Abscisic Acid (S-ABA) in 100 g of product. S-Abscisic Acid, commonly known as S-ABA, is a naturally occurring growth regulator found in plants. Application of ProTone SG (S-ABA) to grape berries causes enhanced coloration of the berries.

See succeeding panel for First Aid, Precautionary Statements, Storage & Disposal Statements and Directions for Use.

**Net Contents: 1.65 lbs. (750 g)**

This container will treat 0.6 acres when applied at the maximum label rate.



EPA Registration No.: 73049-461  
EPA Establishment No.: 33762-IA-001

List No.: 0571C  
04-64 (rev)

## INERT CLEARANCE STATUS FORM

Reviewer Name: Tracy Jackson			Request Date: 3/19/12
Tel 703-308-7227	ISB	CUBE: S-4812	MAIL CODE: 7502p

**A. COMMENTS:**

Inerts not approved

**B. PESTICIDE PRODUCT INFORMATION:**

Receipt Number: 913147  EPA Reg. No/File Symbol: 73049-460 Technical <b>(73049-474 End Use)</b>  Product Name: S-Abscisic Acid, Technical Grade Active Ingredient  <b>(Massivo BioNik Plant Growth Regulator, End Use)</b>	Date on CSF: 3/8/12  Formulation: Basic formulation	Food-Use Pesticide: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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**C. INGREDIENT INFORMATION:**

Ingredient No.1	Tolerance Exemption(s) <sup>1</sup>					
	910	920	930	940	950	960
Chem. Name: [REDACTED]						
Trade Name: [REDACTED]						
CAS Reg. No.: [REDACTED]						
Comments: Inert is only approved for non-food use. You can either remove it from the Confidential Statement of Formula or remove and add an inert that is approved for food use.						

**Ingredient No. 2**

Chem. Name: [REDACTED]						
Trade Name: [REDACTED]						
CAS Reg. No.: [REDACTED]						
Comments: Please verify if the trade name is [REDACTED]						

<sup>1</sup>Language from the Code of Federal Regulations (40 CFR 180, subpart D):

40 CFR 180.910: Inert ingredients used pre- and post-harvest; 40 CFR 180.920: Inert ingredients used pre-harvest; 40 CFR 180.930: Inert ingredients applied to animals; 40 CFR 180.940: Tolerance exemptions for active and inert ingredients for use in antimicrobial formulations; 40 CFR 180.950: Tolerance exemptions for minimal risk active and inert ingredients; and 40 CFR 180.960: Polymers.



## INERT CLEARANCE STATUS FORM

Reviewer Name: Tracy Jackson			Request Date: 3/19/12
Tel 703-308-7227	ISB	CUBE: S-4812	MAIL CODE: 7502P

**A. COMMENTS:**

Inert Issues
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**B. PESTICIDE PRODUCT INFORMATION:**

Receipt Number: 913147 EPA Reg. No/File Symbol: 73049-460 Technical (73049-462 End Use) Product Name: S-Abscisic Acid, Technical Grade Active Ingredient (ConTego Pro SL End use)	Date on CSF: 3/8/12 Formulation: Basic Formulation	Food-Use Pesticide: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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**C. INGREDIENT INFORMATION:**

Ingredient No.1	Tolerance Exemption(s) <sup>1</sup>					
	910	920	930	940	950	960
Chem. Name: <span style="background-color: black; color: black;">XXXXXXXXXX</span>						
Trade Name:						
CAS Reg. No. <span style="background-color: black; color: black;">XXXXXXXXXX</span>						
Comments: <b>The CAS # does not match the inert.</b>						

**Ingredient No. 2**

Chem. Name:						
Trade Name						
CAS Reg. No.:						
Comments:						

Reviewer Name: Tracy Jackson

Review Date: 3/19/12

<sup>1</sup>Language from the Code of Federal Regulations (40 CFR 180, subpart D):

40 CFR 180.910: Inert ingredients used pre- and post-harvest; 40 CFR 180.920: Inert ingredients used pre-harvest; 40 CFR 180.930: Inert ingredients applied to animals; 40 CFR 180.940: Tolerance exemptions for active and inert ingredients for use in antimicrobial formulations; 40 CFR 180.950: Tolerance exemptions for minimal risk active and inert ingredients; and 40 CFR 180.960: Polymers.

